MANUFACTURING NUMBERS:

9100101
9100102
9100103
9100104
9100105
9100106
9100107
9100111
9100112
9100113
9100114
9100115
9100116
9100118
9100121
9100122
9100123
9100124
9100125
9100126
9100128
9100131
9100132
9100133
9100134
9100135
9100136
9100146
9100156

roundup
FOOD EQUIPMENT DIVISION

DELUXE FOOD WARMER

Series 9100100

P/N 1010678 Rev. B 10/99

Owner's Manual

TABLE OF CONTENTS

Owner Information.....1
General.....*1*
Warranty Information.....*1*
Service/Technical Assistance.....*2*
Important Safety Information.....3
Specifications.....5
Electrical Ratings.....*5*
Electrical Cord & Plug Configurations.....*5*
Model Designation.....*5*
Shipping Weight.....*6*
Capacities.....*6*
Dimensions.....*6*
Installation.....7
Unpacking.....*7*
Equipment Setup.....*7*
Operation.....9
General.....*9*
Operating Instructions for Manual (Non-Timer) Models.....*9*
Operating Instructions for Timer Models.....*10*
Programming Timer Models.....*10*
Steaming Tips.....*12*
Hi-Limit Reset Button.....*14*
Maintenance.....14
Maintenance Schedule.....*14*
Troubleshooting.....17-19
Replacement Parts.....19-27
Warranty.....Back Cover

OWNER INFORMATION

General

The Deluxe Food Warmer produces steam using plain tap water for quick heating and reconstituting of food items. Simple pushbutton action delivers a fully adjustable impulse of steam. Because the amount of steam is consistent, it removes the guesswork and produces a uniform finished product from one operator to the next.

This manual provides the safety, installation and operating procedures for the Deluxe Food Warmer. We recommend that all information contained in this manual be read prior to installing and operating the unit.

Your Deluxe Food Warmer is manufactured from the finest materials available and is assembled to Roundup's strict quality standards. This unit has been tested at the factory to ensure dependable trouble-free operation.

Warranty Information

Please read the full text of the Limited Warranty in this manual.

If the unit arrives damaged, contact the carrier immediately and file a damage claim with them. Save all packing materials when filing a claim. Freight damage claims are the responsibility of the purchaser and **are not** covered under warranty.

The warranty **does not** extend to:

- Damages caused in shipment or damage as result of improper use.
- Installation of electrical service.
- Normal maintenance as outlined in this manual.
- Malfunction resulting from improper maintenance.
- Damage caused by abuse or careless handling.
- Damage from moisture into electrical components
- Damage from tampering with, removal of, or changing any preset control or safety device.

IMPORTANT! Keep these instructions for future reference. If the unit changes ownership, be sure this manual accompanies the equipment.

OWNER INFORMATION (continued)

Service/Technical Assistance

If you experience any problems with the installation or operation of your unit, contact your local Roundup Authorized Service Agency. They can be found in the service agency directory packaged with the equipment.

Fill in the information below and have it handy when calling your authorized service agency for assistance. The serial number is on the specification plate located on the rear of the unit.

Purchased From: _____

Date of Purchase: _____

Model No.: _____

Serial No.: _____

Mfg. No.: _____

Refer to the service agency directory and fill in the information below

Authorized Service Agency

Name: _____

Phone No.: _____

Address: _____

Use only genuine Roundup replacement parts in this unit. Use of replacement parts other than those supplied by the manufacturer will void the warranty. Your Authorized Service Agency has been factory trained and has a complete supply of parts for this unit.

You may also contact the factory at ***1-877-392-7854*** if you have trouble locating your local authorized service agency.

A.J. Antunes & Co. reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.

IMPORTANT SAFETY INFORMATION

Throughout this manual, you will find the following safety words and symbols that signify important safety issues with regards to operating or maintaining the equipment.

⚠ WARNING ⚠

GENERAL WARNING. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

⚠ WARNING ⚠

ELECTRICAL WARNING. Indicates information relating to possible shock hazard. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

⚠ CAUTION ⚠

GENERAL CAUTION. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment.

WARNING

HOT SURFACE WARNING. Indicates information important to the handling of equipment and parts. Failure to observe caution could result in personal injury.

In addition to the warnings and cautions in this manual, use the following guidelines for safe operation of the unit.

- Read all instructions before using equipment.
- For your safety, the equipment is furnished with a properly grounded cord connector. Do not attempt to defeat the grounded connector.
- Install or locate the equipment only for its intended use as described in this manual. Do not use corrosive chemicals in this equipment.
- Do not operate this equipment if it has a damaged cord or plug; if it is not working properly, or if it has been damaged or dropped.
- This equipment should be serviced by qualified personnel only. Contact the nearest Roundup authorized service facility for adjustment or repair.
- Do not block or cover any openings on the unit.
- Do not immerse cord or plug in water.
- Keep cord away from heated surfaces.
- Do not allow cord to hang over edge of table or counter.

The following warnings and cautions appear throughout this manual and should be carefully observed.

- **Turn the unit off, disconnect the power source and allow unit to cool down before performing any service or maintenance on the unit.**
- **The procedures in this chapter may include the use of chemical products. These chemical products will be highlighted with bold face letters followed by the abbreviated HCS (Hazard Communication Standard). See Hazard Communication Standard manual for the appropriate Material Safety Data Sheets (MSDS).**
- **The equipment should be grounded according to local electrical codes to prevent the possibility of electrical shock. It requires a grounded receptacle with separate electrical lines, protected by fuses or circuit breaker of the proper rating.**
- **All electrical connections must be in accordance with local electrical codes and any other applicable codes.**

IMPORTANT SAFETY INFORMATION (continued)

- **WARNING ELECTRICAL SHOCK HAZARD. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.**
  - **Electrical ground is required on this appliance.**
  - **Do not modify the power supply cord plug. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.**
  - **Do not use an extension cord with this appliance.**
  - **Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.**
- **This equipment is to be installed to comply with the basic plumbing code of the Building Officials and Code Administrators, Inc. (BOCA) and the Food Service Sanitation Manual of the Food and Drug Administration (FDA).**
- **On direct water hook-up units, water pressure must not exceed 30 psi (2.1 kg/cm^2 or 207 kPa). Higher water pressures may cause poor performance or flooding. To reduce water pressure, install a water pressure regulator and set water pressure between 20-30 psi (1.4 - 2.1 kg/cm^2 or 138 - 207 kPa). To order a water pressure regulator from your authorized service center, order Roundup part no. 217K105.**
- **Do not clean this appliance with a water jet.**
- **Do not use a sanitizing solution or abrasive materials. The use of these may cause damage to the stainless steel finish.**
- **To ensure proper steaming characteristics, some mineral deposits must be present on generator casting. If, during cleaning, the casting does become free of mineral deposits, add plain tap water to casting and allow it boil off. This may have to be repeated several times to ensure proper steaming characteristics by creating a thin layer of mineral deposits on the casting.**
- **Chlorides or phosphates in cleansing agents (e.g. bleach, sanitizers, degreasers or detergents) could cause permanent damage to stainless steel equipment. The damage is usually in the form of discoloration, dulling of metal surface finish, pits, voids, holes or cracks. THIS DAMAGE IS PERMANENT AND NOT COVERED BY WARRANTY.**

  The following tips are recommended for maintenance of your stainless steel equipment,
  - **Always use soft, damp cloth for cleaning, rinse with clear water and wipe dry. When required, always rub in direction of metal polish lines.**
  - **Routine cleaning should be done daily using soap, ammonia detergent and water.**
  - **Stains and spots should be sponged using a vinegar solution as required.**
  - **Finger marks and smears should be rubbed off using soap and water.**
  - **Hard water spots should be sponged using a vinegar solution.**

SPECIFICATIONS

Electrical Ratings

DFW SERIES

Voltage	Watts	Amps	Hertz
120	1800	15	50/60
120*	1500	12.5	50/60
230	2800	12.2	50/60

** Canadian unit.*

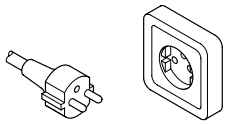
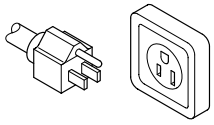
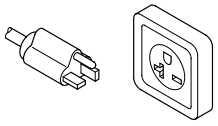
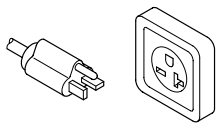
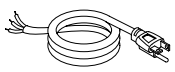
DFWT SERIES

Voltage	Watts	Amps	Hertz
120	1800	15	50/60
230	2800	12.2	50/60

DFWF SERIES

Voltage	Watts	Amps	Hertz
208	3300	15.9	50/60
230	3300	14.3	50/60

Electrical Cord & Plug Configurations

Letter Code*	Description	Configuration
C	CEE 7/7 Schuko	
F	NEMA 5-15P	
T	NEMA 5-20P	
V	NEMA 6-20P	
C H	Commercial Cord Harmonized Cord	

** Used in Model Designation*

⚠ CAUTION ⚠

All electrical connections must be in accordance with local electrical codes and any other applicable codes.

⚠ WARNING ⚠

ELECTRICAL SHOCK HAZARD.

FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL COULD RESULT IN SERIOUS INJURY OR DEATH.

- **Electrical ground is required on this appliance.**
- **Do not modify the power supply cord plug. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.**
- **Do not use an extension cord with this appliance.**
- **Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.**

Model Designation

DFWT-250XX

TYPE OF POWER CORD
H = HARMONIZED
C = COMMERCIAL

TYPE OF PLUG
C = CEE 7/7 Schuko
F = NEMA 5-15P
T = NEMA 5-20P
V = NEMA 6-20P
I = International Pin & Sleeve

00 = Manual (non-timer)
50 = Timer

1 = Self-Contained Water Tank
2 = Direct Water Hook-Up

T = 2/3 Size Pan
F = Full Size Pan
NO LETTER = 1/2 Size Pan

SPECIFICATIONS (continued)

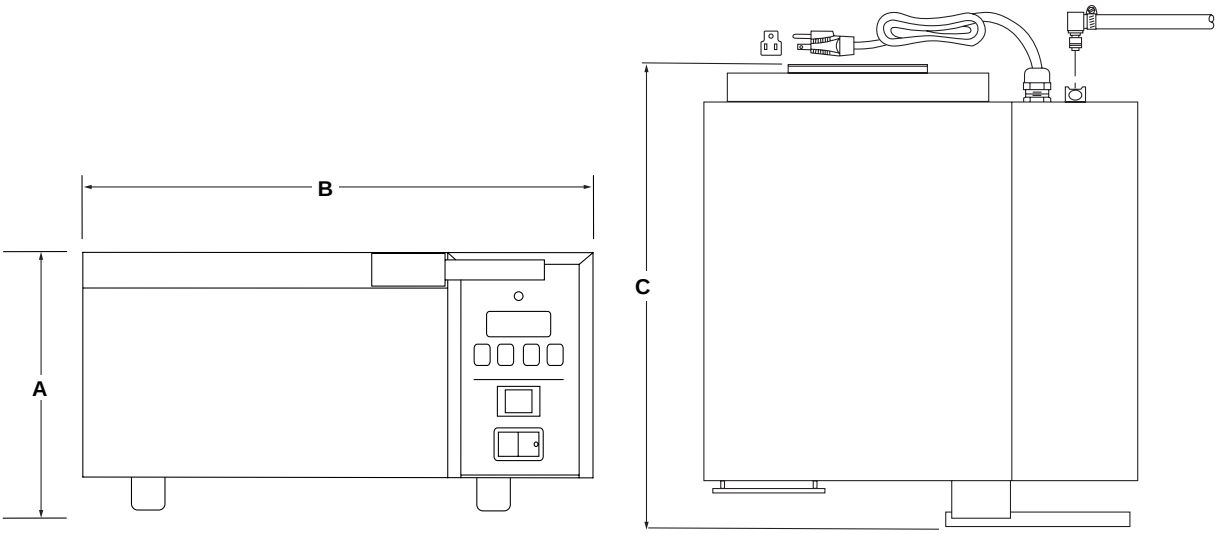
Shipping Weight

DFW-100 Series	40 lbs (18.2 kg)
DFW-200 Series	40 lbs (18.2 kg)
DFWT-100 Series	54 lbs (24.5 kg)
DFWT-200 Series	54 lbs (24.5 kg)
DFWF-250 Series	75 lbs (33.6 kg)

Capacities

DFW Series	2-7/8" (7.3 cm) Deep Half size steam table pan
DFWT Series	2-7/8" (7.3 cm) Deep 2/3-size steam table pan
DFWF Series	4" (10.2 cm) Deep Full size steam table pan

Dimensions



Model	Dim. A	Dim. B	Dim. C
DFW-100/200	8-1/4" (209 mm)	16-1/2" (419 mm)	17-1/4" (438 mm)
DFW-150/250	8-1/4" (209 mm)	16-1/2" (419 mm)	17-1/4" (438 mm)
DFWT-100/200	8-1/4" (209 mm)	20" (508 mm)	17-1/4" (438 mm)
DFWT-150/250	8-1/4" (209 mm)	20" (508 mm)	17-1/4" (438 mm)
DFWF-250	9-7/16" (240 mm)	26-7/8" (682 mm)	17-1/4" (438 mm)

INSTALLATION

Unpacking

1. Remove unit and all packing materials from shipping carton.
2. Open the large box. It should contain the following:
   - DFW Unit
   - Information Packet,
   - Water Hookup Kit (DFW-200 Series only).

NOTE: If any parts are missing or damaged, contact Antunes Technical Service IMMEDIATELY at 1-877-392-7854.

3. Remove information packet. To prevent delay in obtaining warranty coverage, fill out and mail in the warranty card.
4. Remove all packing materials and protective coverings from the unit.
5. Remove and wash all removable parts (pan, trivet and diffuser) in soap and water. Rinse with clean hot water and allow to air dry.

NOTE: The steam generator surface will have a white coating of artificial lime deposits. This coating is necessary for steaming characteristics and should not be cleaned.

6. Wipe all surfaces of the unit with a hot damp cloth.

NOTE: Do not use a dripping wet cloth. Wring out before use.

7. Re-install pan and trivet.

Equipment Setup

GENERAL

When placing the unit into service, pay attention to the following guidelines:

- Make sure power to the unit is off and the unit is at room temperature.
- Do not block or cover any openings on the unit.
- Do not immerse cord or plug in water.
- Keep cord away from heated surfaces.
- Do not allow cord to hang over edge of table or counter.

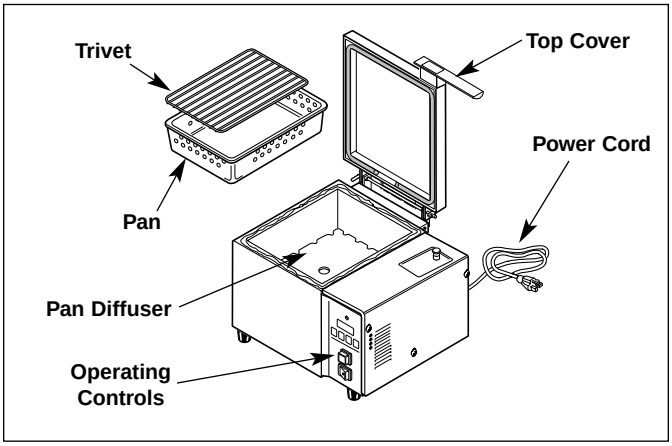


Figure 1. Components

ELECTRICAL

1. Place the unit on a sturdy, level table or other work surface. Turn off the rocker switch (power on/off) before proceeding.
2. Ensure that the line voltage corresponds to the stated voltage on the units specification label and power cord warning tag.
3. Connect the unit to the power supply.

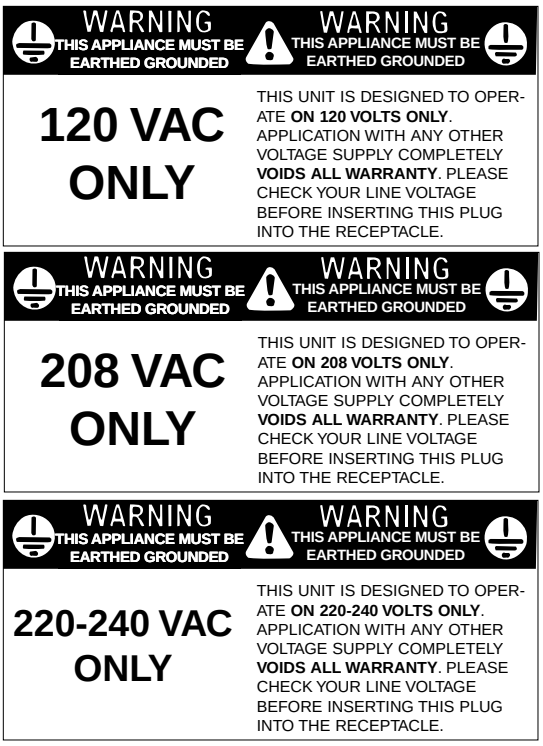

WARNING
THIS APPLIANCE MUST BE EARTHED GROUNDED
WARNING
THIS APPLIANCE MUST BE EARTHED GROUNDED
120 VAC ONLY
THIS UNIT IS DESIGNED TO OPERATE ON 120 VOLTS ONLY. APPLICATION WITH ANY OTHER VOLTAGE SUPPLY COMPLETELY VOIDS ALL WARRANTY. PLEASE CHECK YOUR LINE VOLTAGE BEFORE INSERTING THIS PLUG INTO THE RECEPTACLE.
WARNING
THIS APPLIANCE MUST BE EARTHED GROUNDED
WARNING
THIS APPLIANCE MUST BE EARTHED GROUNDED
208 VAC ONLY
THIS UNIT IS DESIGNED TO OPERATE ON 208 VOLTS ONLY. APPLICATION WITH ANY OTHER VOLTAGE SUPPLY COMPLETELY VOIDS ALL WARRANTY. PLEASE CHECK YOUR LINE VOLTAGE BEFORE INSERTING THIS PLUG INTO THE RECEPTACLE.
WARNING
THIS APPLIANCE MUST BE EARTHED GROUNDED
WARNING
THIS APPLIANCE MUST BE EARTHED GROUNDED
220-240 VAC ONLY
THIS UNIT IS DESIGNED TO OPERATE ON 220-240 VOLTS ONLY. APPLICATION WITH ANY OTHER VOLTAGE SUPPLY COMPLETELY VOIDS ALL WARRANTY. PLEASE CHECK YOUR LINE VOLTAGE BEFORE INSERTING THIS PLUG INTO THE RECEPTACLE.

Figure 2. Warning Labels

INSTALLATION (continued)

⚠ WARNING ⚠

ELECTRICAL SHOCK HAZARD.

FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL COULD RESULT IN SERIOUS INJURY OR DEATH.

- **Electrical ground is required on this appliance.**
- **Do not modify the power supply cord plug. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.**
- **Do not use an extension cord with this appliance.**
- **The unit should be grounded according to local electrical codes to prevent the possibility of electrical shock. It requires a grounded receptacle with separate electrical lines, protected by fuses or circuit breaker of the proper rating.**
- **Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.**

⚠ CAUTION ⚠

All electrical connections must be in accordance with local electrical codes and any other applicable codes.

PLUMBING

NOTE: DFW models are designed to use cold tap water. Distilled water may be used to reduce mineral deposit build-up and reduce maintenance costs.

Models DFW/DFWT - 100/150

⚠ CAUTION ⚠

This equipment is to be installed to comply with the basic plumbing code of the Building Officials and Code Administrators, Inc. (BOCA) and the Food Service Sanitation Manual of the Food and Drug Administration (FDA).

The DFW/DFWT-100/150 models feature a self-contained water supply and are portable. To fill the self-contained water tank:

1. Open the sliding tank cover on top of the unit (Figure 3).

NOTE: Make sure filter inside tank is installed properly.

2. Pour in cold tap water. The tank will hold approximately 3 quarts (2.81 liters).

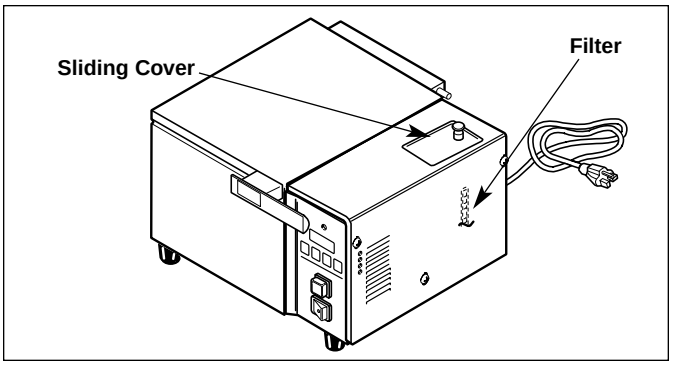


Figure 3. Filling Water Tank

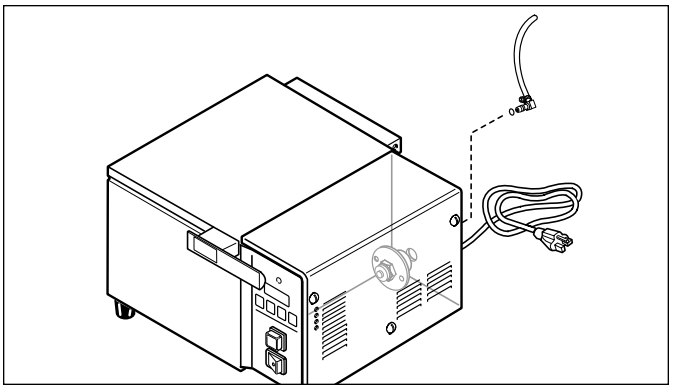


Figure 4. Connecting Water Supply

3. Close the water tank cover.

Models DFW/DFWT/DFWF - 200/250

DFW/DFWT/DFWF-200/250 units require a direct water hookup. An installation kit is packed inside the unit.

1. Connect the 1/4" (6.5 mm) I.D. flexible tubing to your water line using the supplied hose clamp.
2. Push the quick disconnect insert into the fitting at the rear of the unit (Figure 4).

NOTE: Incoming water is controlled by a solenoid valve within the unit.

⚠ CAUTION ⚠

On direct water hookup units, water pressure must not exceed 30 psi (2.1 kg/cm² or 207 kPa). Higher water pressures may cause poor performance or flooding. To reduce water pressure, install a water pressure regulator, and set water pressure between 20-30 psi (1.4 - 2.1 kg/cm² or 138 - 207 kPa). Order Roundup part no. 217K105 from your authorized service center.

OPERATION

General Information

ALL MODELS

When the operate button (Figure 5) is pressed and released, power is supplied to the water pump (Water Tank models) or solenoid (Direct Water Hookup models). The pump/solenoid operates and water sprays onto the heated steam generator. The water flashes immediately into live steam and surrounds the product.

TIMER MODELS - DFW/DFWT/DFWF–150/250

On Timer Models, one of two operational modes can be used: Single Shot or Timed Cycle

Single Shot

The operate button is pressed and released to initiate a single timed shot. The control board applies power to the water pump/solenoid and a timed "shot" of steam occurs.

Timed Cycle

The control is set to the desired cook time (up to 99 minutes, 59 seconds), then the Start/Stop Button is pressed. The main control board applies power to the water pump/solenoid at regular intervals for the duration of the displayed cycle time. The display counts down to zero when the cycle is complete, then reverts back to the original programmed cycle time. The unit is ready for the next cycle when the green ready light is on.

IMPORTANT: Your Timer Model is factory programmed for the following:

- Total Cycle Time = [15.00] (15 minutes)
  (Range: 1 sec. to 99 mins 59 secs)
- Shot Interval Time (SHO) = [020] (20 seconds)
  (Range: 3 secs to 5 mins 59 secs; 20 seconds is recommended)
- Steam Shot Time (H_2O) =
  Direct Hookup Models - [0_50] or 0.50 sec
  (Range: 0.10 sec to 2.50 secs)
  Water Tank Models - [0_80] or 0.80 sec;

The above settings convert approximately 3/4 oz. (25 milliliters) of water into to steam every 20 seconds for a 15 minute cooking cycle. To change any of these settings see *PROGRAMMING* under *OPERATION–TIMER MODELS*.

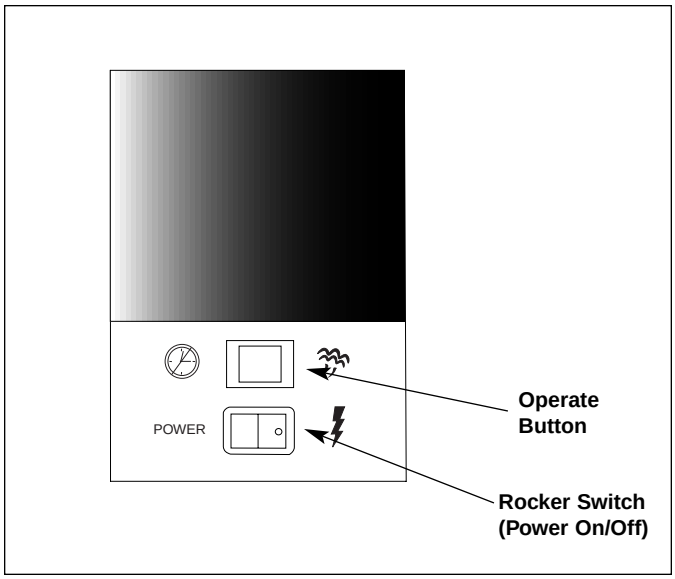


Figure 5. Operating Controls Non-Timer Models

Operating Instructions For Manual (Non-Timer) Models–DFW/DFWT-100/200

1. Turn on the rocker switch (power on/off) (Figure 5).
2. Allow the unit to preheat for approximately 30 minutes.

NOTE: Do not push the operate button during warm-up.

3. Open the top cover and place the product to be steamed onto the trivet, then close the cover.

⚠ WARNING ⚠

To avoid injury, be careful when opening top cover. Be sure to allow steam to escape before putting hands or face over the steamer.

4. Press the operate button for 1 second then release and wait 20 seconds for the steam to penetrate the product. Repeat if product requires more steam.
5. Remove steamed product.

OPERATION (continued)

Operating Instructions For Timer Models – DFW/DFWT/DFWF-150/250

1. Turn on the rocker switch (power on/off) (Figure 6).
2. Allow the unit to preheat for approximately 30 minutes.

IMPORTANT: The flashing green ready light will become steady when the unit is up to temperature and ready to be used.

IMPORTANT: Do not push the operate button during warm-up. The flashing green light indicates unit is not up to temperature.

3. Open the top cover and place the product to be steamed onto the trivet, then close the cover.

⚠ WARNING ⚠

To avoid injury, be careful when opening top cover. Be sure to allow steam to escape before putting hands or face over the steamer.

4. Single Shot: Press the operate button for 1 second then release and wait 20 seconds for the steam to penetrate the product.

   Timed Cycle: Press the start/stop button to begin the steaming cycle. Display will count down to zero.

5. Remove steamed product.

Programming–Timer Models

IMPORTANT: Early style units are equipped with a red LED display while later style units have a green LED display.

Total Cycle refers to the total amount of cooking time set for the product.

SHO (Shot Interval Time) is the time set between shots of steam during a complete cycle.

H_2O setting (Steam Shot Time) is used to adjust the water volume during each pump/solenoid operation, or "shot" of steam.

The amount of steam produced by your Deluxe Food Warmer depends on the amount of water sprayed onto the steam generator.

Flooding of the generator may occur if the H_2O setting is set too high or if the SHO setting is set too low. To prevent this from occurring, the Shot Interval Time (SHO) should be increased to allow more time for generator heat recovery, and the Steam Shot Time (H_2O) could be decreased to reduce water volume. Adjustments should be made to both values to determine the optimum settings for your cooking needs.

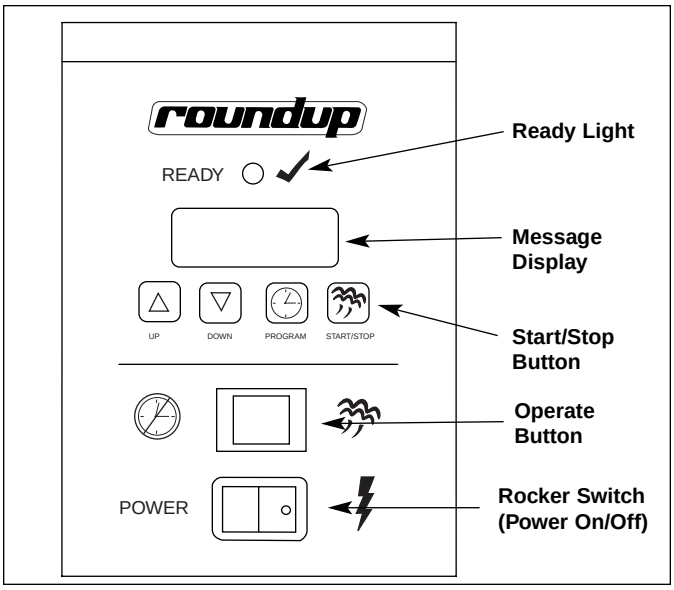
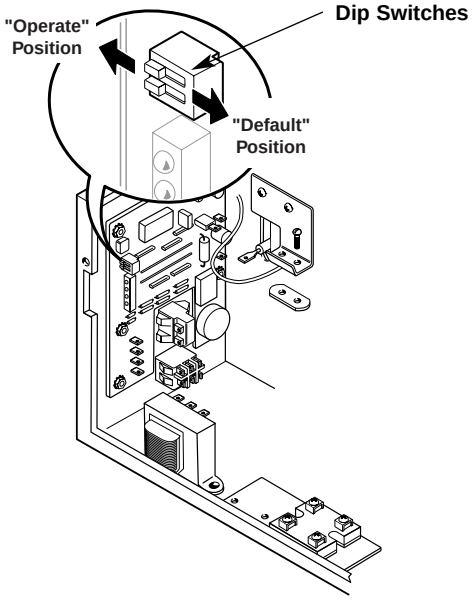


Figure 6. Operating Controls–Timer Models



NOTE: Control board is identified by part number 4070021, located on the rear of the control board.

Figure 7. Dip Switches - Early Units Equipped with Red LED Display

IMPORTANT: FACTORY SETTINGS

Your Deluxe Food Warmer is factory programmed for the following default values.

CYC = [15.00] (15 minutes)
SHO = [020] (20 seconds)
H2O = [0_50] or 0.50 sec (direct water hookup units DFW/DFWT/DFWF-250)
[0_80] or 0.80 sec (water tank units DFW/DFWT-150)

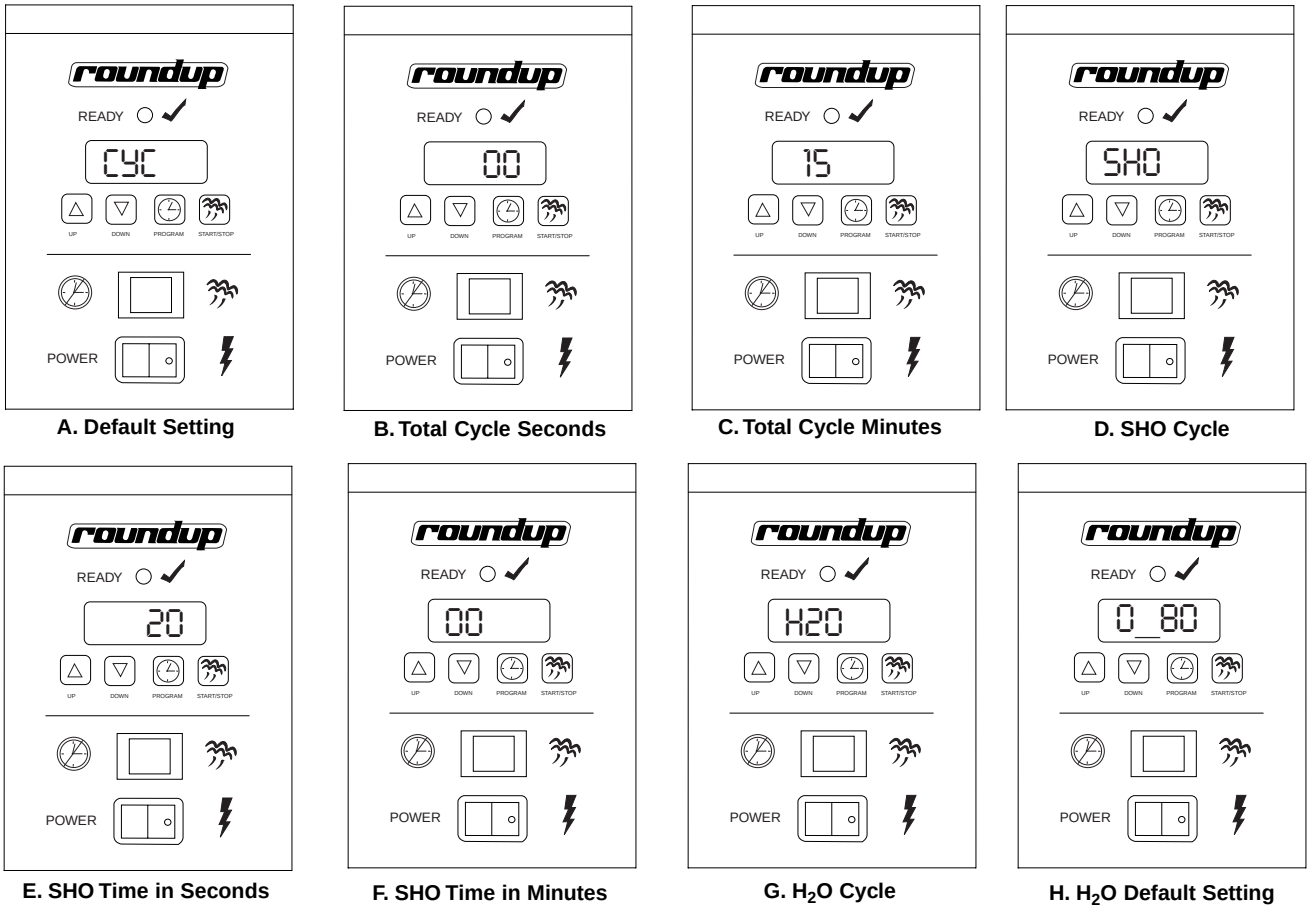
This delivers approximately 3/4 oz. (25 milliliters) of water every 20 seconds for a 15 minute cooking time. Changes may be made to any of these settings. However, for optimum performance, settings should remain in the above factory default settings.

EARLY UNITS EQUIPPED WITH RED LED DISPLAY ONLY

To program the control, refer to Figure 8 and use the following procedure in sequence:

1. Make sure the rocker switch (power on/off) is in the off position.
2. Remove the access cover.
3. Move both dip switches (Figure 7) to the "Default" position (away from the front panel).
4. Turn on the rocker switch (power on/off). The display will show CYC, short for Cycle. The Y will look like a "4" on the display (A, Figure 8).
5. Depress the program button to change the control from OPERATION to PROGRAM mode.

NOTE: Use the UP or DOWN Arrow Buttons to change the minute or second time interval.



A. Default Setting | **B. Total Cycle Seconds** | **C. Total Cycle Minutes** | **D. SHO Cycle**

E. SHO Time in Seconds | **F. SHO Time in Minutes** | **G. H_2O Cycle** | **H. H_2O Default Setting**

Figure 8. Control Programming Sequence - Early Units Equipped With Red LED Display

OPERATION (continued)

6. Use the UP or DOWN arrow buttons to change the Total Cycle time in seconds (B, Figure 8).
7. Depress the program button again, and use the UP or DOWN arrow buttons to change the Total Cycle time in minutes (C, Figure 8).
8. Depress the program button again, SHO will be displayed (D, Figure 8).
9. Depress the program button once and use the UP or DOWN arrow buttons to change the SHO (Shot Interval Time) in seconds (E, Figure 8).

NOTE: 020 (20 seconds) shot time is recommended. To prevent generator flooding, do not set time between SHOTS to less than 20 seconds.

10. Depress the program button again and use the UP or DOWN arrow buttons to change the SHO (Shot Interval Time) in minutes (F, Figure 8).
11. Depress the program button again and H_2O will be displayed (G, Figure 8).
12. To change the H_2O (Steam Shot) in milliseconds, use the UP or DOWN arrow buttons to increase or decrease the time. See *Important: Factory Settings* on page 11.
13. After all settings have been programmed, press the program button until display shows CYC to indicate completion of the procedure, before proceeding to step 14.
14. Turn off the rocker (power on/off) switch.
15. Move both dip switches (Figure 7) to the "Operate" position (toward the front panel).
16. Re-install the access cover.

LATER UNITS EQUIPPED WITH GREEN LED DISPLAY

To program the control, refer to Figure 9 and use the following procedure in sequence:

1. Turn on the rocker switch (power on/off). The display will show the factory programmed (default) Total Cycle time in minutes/seconds (A, Figure 9).
2. Depress the program button to change the control from OPERATION to PROGRAM mode.
3. To change the Total Cycle time factory settings (default), use the UP or DOWN arrow buttons to change the Total Cycle time in minutes (B, Figure 9).
4. Depress the program button again, and use the UP or DOWN arrow buttons to change the Total Cycle time in seconds (C, Figure 9).
5. To change the SHO factory settings (default), make sure the control is in PROGRAM mode, then depress the two arrow buttons simultaneously. SHO will be displayed (D, Figure 9).
6. Depress the program button once and use the UP or DOWN arrow buttons to change the SHO (Shot Interval Time) in seconds (E, Figure 9).

NOTE: 020 (20 seconds) shot time is recommended. To prevent generator flooding, do not set time between SHOTS to less than 20 seconds.

7. Depress the program button again and use the UP or DOWN arrow buttons to change the SHO (Shot Interval Time) in minutes (F, Figure 9).
8. Depress the program button again and H_2O will be displayed (G, Figure 9).
9. To change the H_2O (Steam Shot) factory settings (default), depress the program button again to display the default setting (H, Figure 9). Use the UP or DOWN arrow buttons to increase or decrease the time. See *Important: Factory Settings* on page 11.
10. Press the Start/Stop button to store the changes and exit the PROGRAM Mode.

NOTE: The Start/Stop button may be pressed at any time during programming to store the changes and exit the PROGRAM Mode.

NOTE: If no change is made within 10 seconds at any time during the programming process, all changes made up to that point are stored in memory and the control reverts to the OPERATION Mode.

Steaming Tips

- Pre-cooked pasta is easily reconstituted, and gives you a hot product without the wetness of the normal "dip" method.
- Experiment with your products and different steaming times–a little more or less steam could change the appearance/flavor.

NOTE: Use the UP or DOWN Arrow Buttons to change the minute or second time interval.

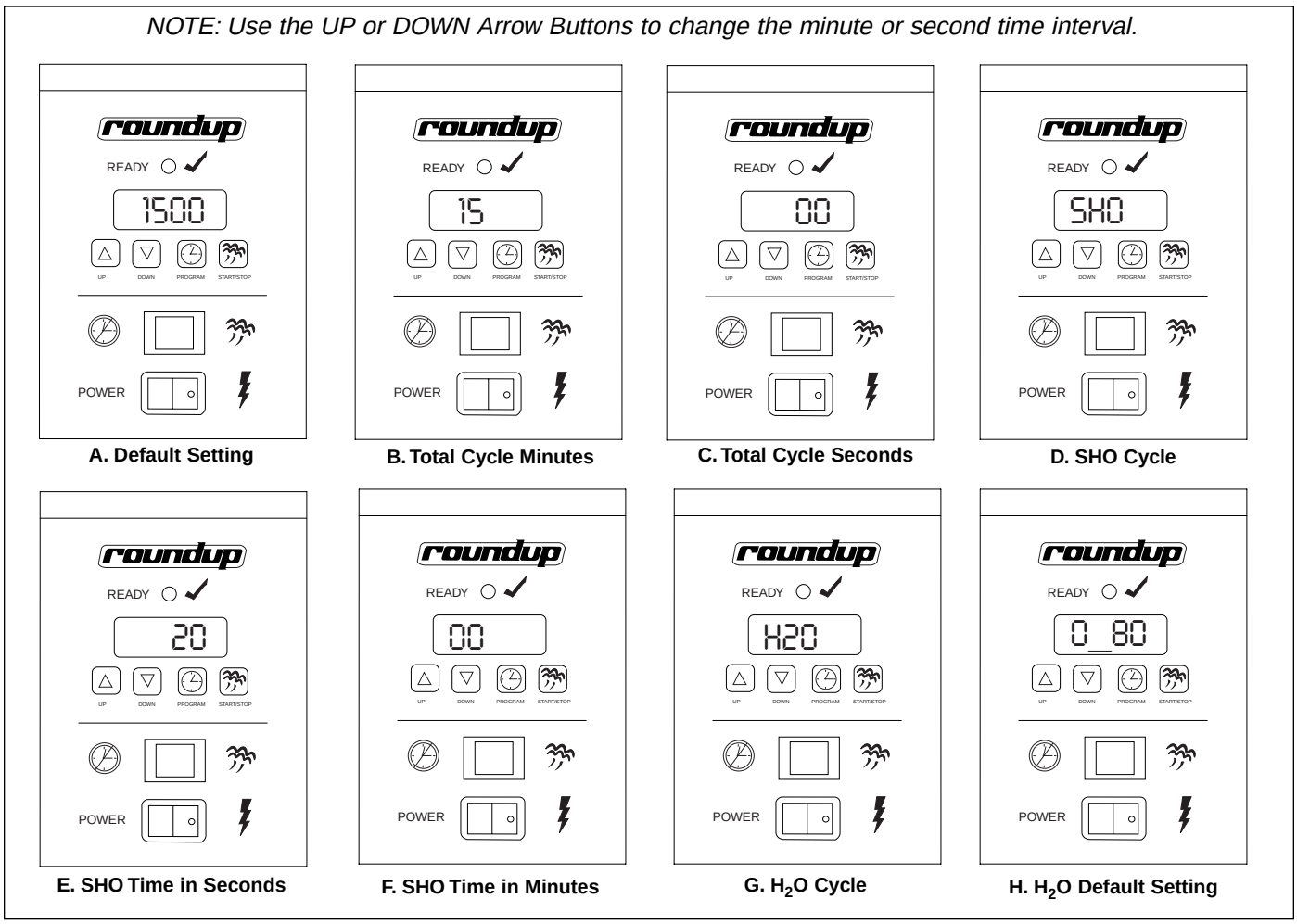


Figure 9. Control Programming Sequence - Later Units Equipped With Green LED Display

- If you serve melted cheese on sandwiches, steam is the perfect way to melt cheese.
- A steamed bun (which takes about 10-15 seconds) says “Hot Sandwich” to your customer.
- Vegetables, rice and bread products can be reconstituted by steaming before serving which reduces waste.
- Dinner rolls, muffins, even tortillas can be heated completely and held without drying out the product.
- Use a low plate or pan when steaming to allow full steam penetration and shorter cooking times.
- Use the “1 in 20” rule: Push the operate switch for one second every twenty seconds. This will ensure that the product gets fully heated without using excess water or energy.
- Condensation inside the steamer is normal, but excess moisture indicates too much water is being used. Use the “1 in 20” rule above to correct this problem. Also, examine the steam generator, it may require cleaning.
- Heat meat and bread products apart from each other, then combine in a sandwich. This will keep the meat juices from soaking the bread.
- Clean the top cover gasket as often as possible or at least once a day with a soft, clean cloth.
- Finish off a special meal with a steamed hand towel–hot without excess moisture.

OPERATION (continued)

Hi-Limit Reset Button

A hi-limit thermostat will turn off electrical power to the heater and control circuits if the unit overheats. To reset this thermostat, allow sufficient time (about 45 minutes) for the unit to cool down, remove the cap located on the rear of the unit (Figure 10) and then fully depress the reset button.

If the unit requires continuous resetting, contact your Roundup authorized service agency.

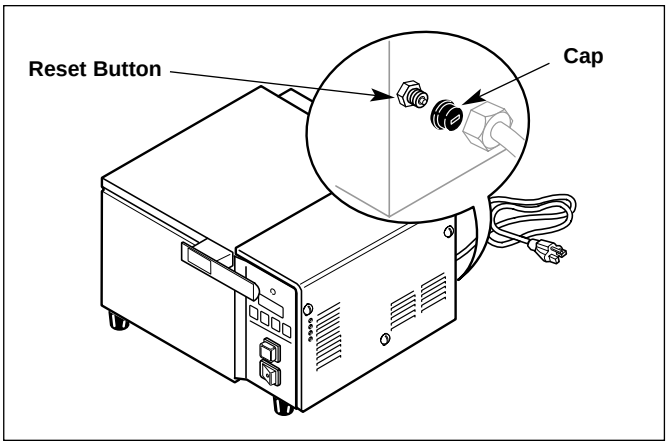


Figure 10. Hi-Limit Reset Button

MAINTENANCE

⚠WARNING ⚠

Turn the unit off, disconnect the power source and allow the unit to cool down before performing any service or maintenance on the unit.

⚠ CAUTION ⚠

Chlorides or phosphates in cleansing agents (e.g. bleach, sanitizers, degreasers or detergents) could cause permanent damage to stainless steel equipment. The damage is usually in the form of discoloration, dulling of metal surface finish, pits, voids, holes or cracks. This damage is permanent and not covered by warranty. The following tips are recommended for maintenance of your stainless steel equipment:

- **Always use soft, damp cloth for cleaning, rinse with clear water and wipe dry. When required, always rub in direction of metal polish lines.**
- **Routine cleaning should be done daily using soap, ammonia detergent and water.**
- **Stains and spots should be sponged using a vinegar solution.**
- **Finger marks and smears should be rubbed off using soap and water.**
- **Hard water spots should be sponged using a vinegar solution.**

Maintenance Schedule

NOTE: Frequency of cleaning is determined by water conditions, usage and water filter systems.

⚠ CAUTION ⚠

Do not use a sanitizing solution or abrasive materials. The use of these may cause damage to the stainless steel finish.

⚠ CAUTION ⚠

If a chemical cleaner is used, be sure it is safe to use on cast aluminum. Observe all precautions and warnings on product label.

⚠ CAUTION ⚠

Unplug power cord before moving and servicing this appliance.

DAILY

1. Turn off rocker switch (power on/off), unplug the power cord and allow the unit to cool down before proceeding.
2. Check the water quick disconnect fitting (Direct Hookup models) and all hose clamps connections for leakage. If leakage is apparent, tighten all clamps or replace part if required.
3. Remove trivet and pan (Figure 11).

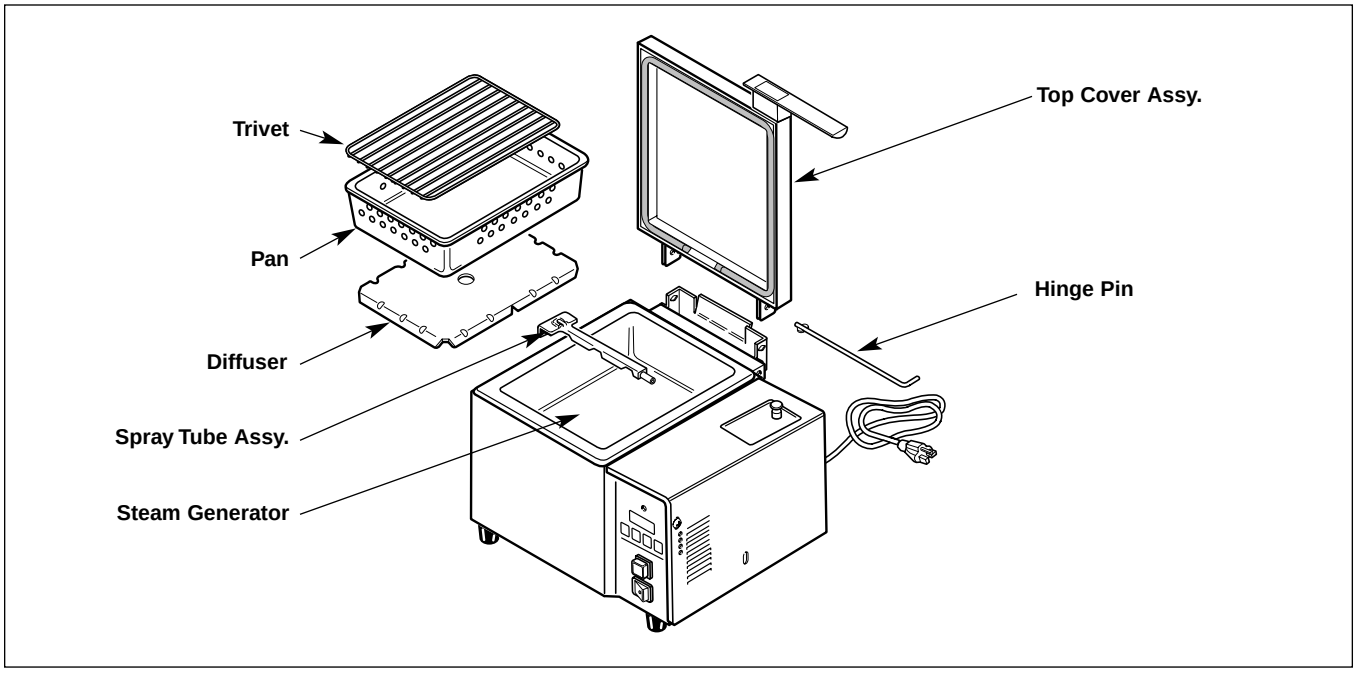


Figure 11. Deluxe Food Warmer Components

4. Clean the chamber of any product spills.
5. Clean entire unit with a clean, hot, damp cloth (not dripping wet) and wipe dry.
6. Re-install pan and trivet.

MONTHLY

Your Deluxe Food Warmer utilizes an open steam generator. Water sprayed onto the generator surface flashes into steam immediately, but the minerals in the water do not steam, they stay on the generator surface. A small amount of mineral deposits are needed for proper operation, but a build-up of excessive mineral deposits causes poor steaming efficiency, excessive moisture (wet steam) and will eventually retard the steaming action completely.

Cleaning Steam Generator

1. Turn off rocker switch (power on/off), unplug the power cord and allow the unit to cool down before proceeding.
2. Remove hinge pin and top cover assy. (Figure 11).
3. Remove trivet, pan and diffuser. Remove spray tube assy. by lifting the loose end and pulling it out of the generator (Figure 11).

⚠ CAUTION ⚠
Do not bend the spray tube. The tube is teflon and bending causes permanent damage.

4. Slide the metal cover off the spray tube, then flex the tube under running water to wash deposits out of the open end.
5. If mineral deposits have formed excessively on the generator surface, use a scraper/spatula to remove deposits.

NOTE: If the mineral deposits come off in "flakes" or in layers, build-up is excessive.

6. With unit cool, use a brass or stainless steel wire brush and small scraper to remove deposits from the generator surface.
7. Pour delimer solution (not supplied) onto the generator surface and allow to soak for one hour. Be sure to follow the delimer manufacturer's directions for proper mixture and use.

⚠ CAUTION ⚠
If a chemical cleaner is used, be sure it is safe to use on cast aluminum. Observe all precautions and warnings on the product label.

8. Remove the delimer solution from the generator with a sponge and rinse with clear water to remove traces of delimer.

MAINTENANCE (continued)

9. Fill steam generator 1/2" (1.5 cm) deep with tap water/hard water (see Note below).

NOTE: To ensure proper steaming characteristics, some mineral deposits must be present on the surface of the generator casting. If during cleaning, the casting does become free of mineral deposits, add plain tap water to casting and allow to boil off. This may have to be repeated several times.

NOTE: In soft water areas, it may be necessary to add a small amount of lime to generator to "season" it. This will ensure proper steaming characteristics by producing a thin coating of mineral deposits on the casting. Seasoning mixture consists of 75 ml. baking soda, 75 ml.lime, and 1 gallon water. Pour 1/4" deep of seasoning mixture onto hot generator. After mixture is converted to steam, the remaining loose powder should be removed.

10. Clean the following parts in hot, detergent water, then rinse in clear water and allow to dry:
    - trivet
    - diffuser
    - pan
    - top cover assy.
11. Clean steam chamber of any product spills.
12. Clean unit surface with a hot, clean, damp cloth (not dripping wet) and wipe dry.
13. Re-install all parts.

⚠ CAUTION ⚠

Do not force the spray tube into the generator opening. If you have difficulty inserting the spray tube, remove the mineral deposits from the opening with a round brush.

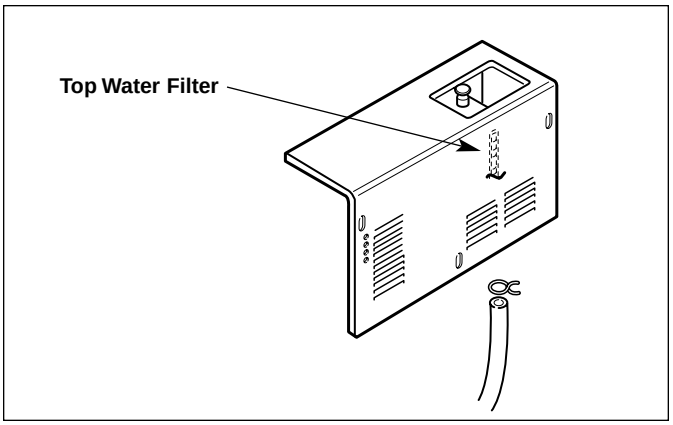


Figure 12. Water Filter–Water Tank Models

Water Filter–Water Tank Models

To prevent solids or food products from entering the water pump, the unit uses a standup water filter (Figure 12). Inspect and clean (if necessary) the filter monthly using the following procedure:

1. Turn off rocker switch (power on/off), unplug the power cord and allow the unit to cool down before proceeding.
2. Remove access cover and tank assembly.
3. Drain water from access cover/tank assembly by sliding tank assembly cover open, tip assembly and pour water into a container.
4. Remove filter located inside the tank by pulling it out (Figure 12).
5. Clean filter by running it under tap water. Replace if torn or damaged.
6. Install filter into water outlet tube inside the tank.
7. Install access cover and tank assembly.
8. Fill water tank and test unit.

TROUBLESHOOTING

⚠ WARNING ⚠

To avoid possible personal injury and/or damage to the unit, inspection, test and repair of electrical equipment should be performed by qualified service personnel. The unit should be unplugged when servicing.

If the troubleshooting steps listed do not solve your machine problem, contact a Roundup Authorized Service Agency for further assistance or service.

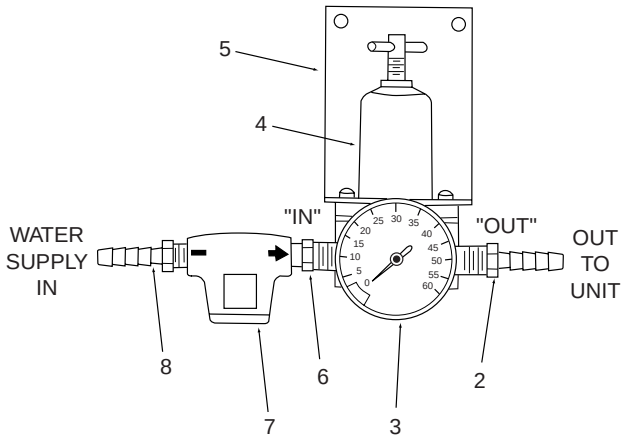
Problem	Possible Cause	Corrective Action
Unit will not heat up. Rocker switch and rocker switch light is on.	Loose connections.	Check continuity of wiring. Tighten as needed.
	Hi-limit thermostat tripped or defective.	Press hi-limit reset button at rear of unit.
Unit will not heat up. Rocker switch is in the ON position, but indicator light on rocker switch is off.	Unit is not plugged in.	Plug power cord into outlet.
	Circuit breaker is off or has been tripped in main power supply.	Turn on or reset circuit breaker.
Unit heats up but will not steam.	**DFW-100 Series (water tank) only.** Water tank out of water.	Add water to reservoir.
	DFW-200 Series (direct hookup) only. Water supply is not connected or shut off.	Connect and/or open main water supply. Remove quick disconnect from back of unit. Depress quick disconnect plunger. If water does not come out, check water line for blockage.
	DFW-100 Series (water tank) only. Water supply line is pinched.	Remove access cover and straighten flexible lines.
	DFW-200 Series (direct hookup) only. Water supply line is pinched.	Straighten water line.
	Clogged generator and or spray tube(s).	Clean or replace tube(s).
	Water filters clogged.	Remove filter and clean.
Water from spray tubes is reduced compared to former operation.	**DFW-200 Series (direct hookup) only.** Low incoming water pressure	Check water pressure. Regulator gauge should read 20-30 psi. If not, adjust accordingly.
	Clogged generator and or spray tube(s).	Clean or replace tube(s).

TROUBLESHOOTING (continued)

Problem	Possible Cause	Corrective Action
Unit becomes flooded or fills with excess water.	Insufficient pre-heat time or no heat at all.	Remove excess water from generator casting surface. Allow 20 minutes before operating steamer. Do not operate steamer during pre-heat period. See *No Heat* sections.
	DFW-200 Series (direct hookup) only. Solenoid valve is leaking.	With rocker switch in the OFF position, and the water line connected to unit, replace solenoid if water starts to slowly accumulate on generator surface. Contact your Authorized Service Agency for repair.
	DFW-200 Series (direct hookup) only. High incoming water pressure.	Check water pressure. Regulator gauge should read 20-30 psi. If not, adjust accordingly.
	Green momentary switch is being depressed for longer than 2 seconds.	Follow the “1 in 20” rule. See *Steaming Tips.*
Timer models only. Unit heats up, pump/solenoid valve works with momentary switch only, but will not steam during programmed timed cycles.	Inoperable control board.	Contact your Authorized Service Agency for repair.
Excessive steam escapes from front or sides of steamer.	Lid cover assembly needs adjustment.	Loosen four screws on hinge bracket at rear of steamer. Press down heavily on center part of lid. Maintain pressure and retighten four screws.

REPLACEMENT PARTS

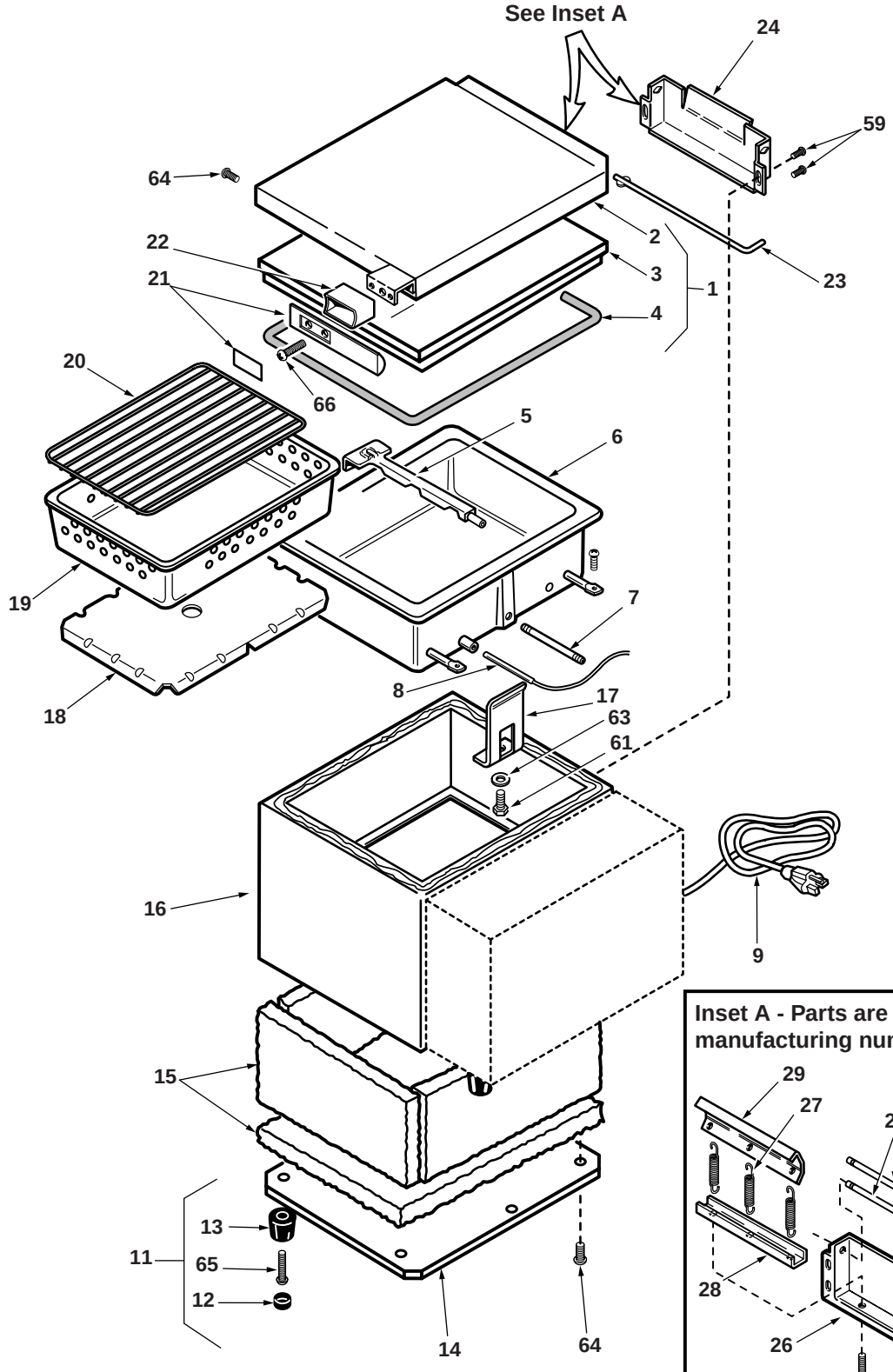
Optional Water Pressure Regulator Kit - Part No. 217K105



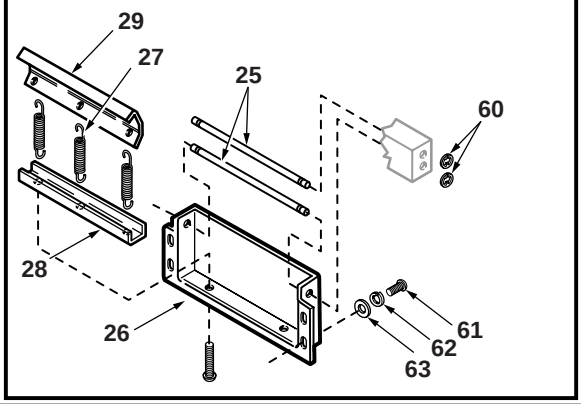
Item	Description	Qty.
1	Hose Clamp (not shown)	1
2	Hose Fitting	1
3	Pressure Gauge, 0-60 PSI	1
4	Pressure Regulator (Factory set at 25 PSI)	1
5	Bottom Bracket	1
6	Reducing Nipple, 1/4" x 1/8"	1
7	Filter Strainer	1
8	Hose Fitting	1

REPLACEMENT PARTS (continued)

DFW/DFWT - 100/150/200/250 Series



Inset A - Parts are used on DFWT-150 with manufacturing number 9100128 only.



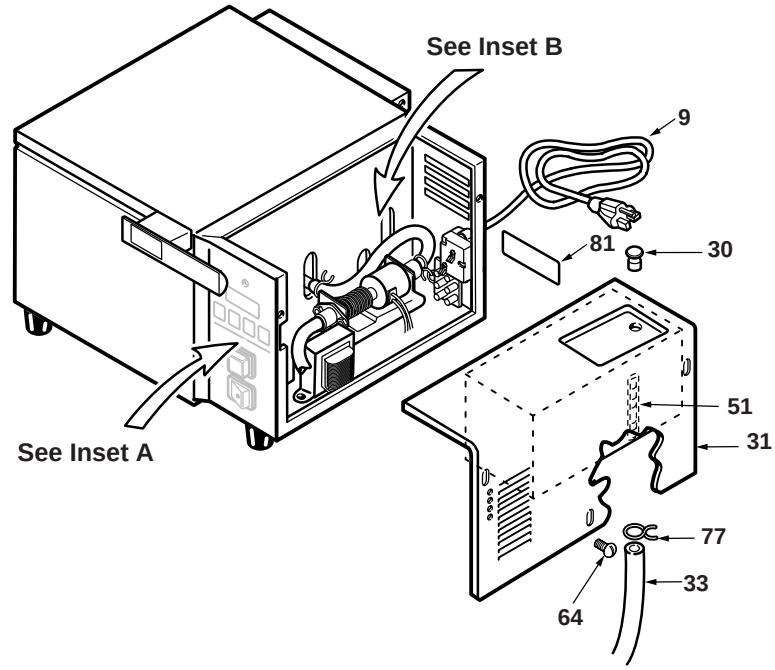
DFW/DFWT - 100/150/200/250 Series

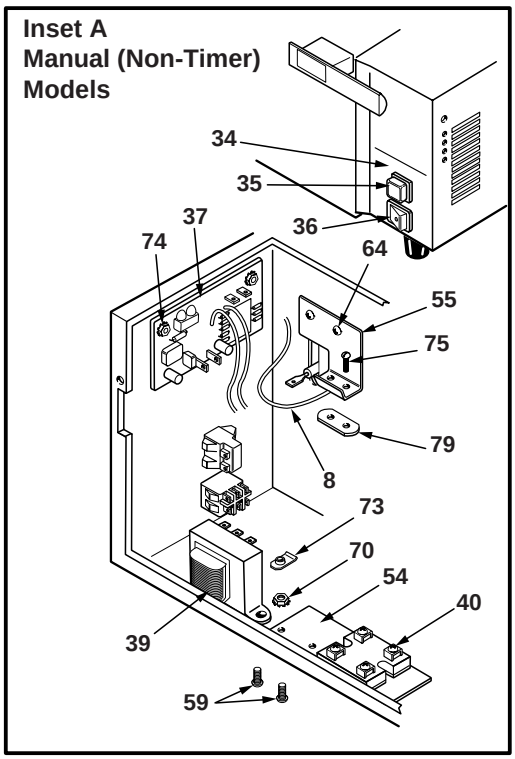
Item	Part No.	Description	Qty.
1	0011115	Top Cover Assy. (DFW Series) (Incl. Nos. 2, 3 & 4)	1
	0011154	Top Cover Assy. (DFWT Series) (Incl. Nos. 2, 3 & 4)	1
	0011162	Top Cover Assy. (DFWT Special Model) (Incl. Nos. 2, 3 & 4)	1
2	0020578	Shelf, Top Cover (DFW Series)	1
	0020577	Shelf, Top Cover (DFWT Series)	1
	0020453	Shelf, Top Cover (DFWT Special Model)	1
3	0021065	Liner, Top Cover (DFW Series)	1
	0021090	Liner, Top Cover (DFWT Series)	1
4	7000122	Gasket, Top Cover (DFW Series)	1
	7000123	Gasket, Top Cover (DFWT Series)	1
5	0010145	Spray Tube Assy. (DFW Series)	1
	0010146	Spray Tube Assy. (DFWT Series)	1
6	7000124	Steam Generator, 120 VAC (DFW Series)	1
	7000147	Steam Generator, 120 VAC, Special 1500W (DFW Series)	1
	7000125	Steam Generator, 230 VAC (DFW Series)	1
	7000126	Steam Generator, 120 VAC (DFWT Series)	1
	7000127	Steam Generator, 230 VAC (DFW Series)	1
7	2190101	Tube, Steam Generator (DFW/DFWT-100 Series)	1
	2190107	Tube, Steam Generator (DFW/DFWT-200 Series)	1
8	4050210	Thermistor (Manual Models)	1
	4050209	Thermocouple (Timer Models)	1
9	0700451	Power Cord, 120 VAC, 14/3 5-20P	1
	0700463	Power Cord, 120 VAC, 14/3 5-15P	1
	0700453	Power Cord, 230 VAC, CEE 7/7	1
	0700437	Power Cord, 230 VAC, IEC-309	1
10	7000139	Male Quick Disconnect Kit	1
11	7000130	Leg Kit (Incl. Nos. 12 & 13)	1
12	2180145	Cover, Leg	4
13	2100230	Leg, 1"	4
14	0503069	Base Plate (DFW Series)	1
	0503178	Base Plate (DFWT Series)	1
15	7000131	Insulation Kit (DFW Series)	1
	7000132	Insulation Kit (DFWT Series)	1
16	0021055	Main Housing (DFW Series)	1
	0021072	Main Housing (DFWT Series)	1
	0021092	Main Housing (DFWT Special Model)	1
17	0503174	Retainer, Generator	2
18	0503177	Diffuser Pan (DFW Series)	1
	0503182	Diffuser Pan (DFWT Series))	1
19	2130102	Perforated Pan (DFW Series)	1
	2130103	Perforated Pan (DFWT Series)	1
20	0800106	Trivet (DFW Series)	1
	0800109	Trivet (DFWT Series)	1
21	7000133	Handle Kit (Incl. Nos. 22 & 66)	1
22	0020964	Cover, Handle Bracket	1
23	0800219	Hinge Pin, Top Cover	1
24	0501569	Hinge Base, Top Cover	1
25	0800280	Hinge Pin (DFWT Special Model)	1
26	0502719	Hinge Base (DFWT Special Model)	1
27	0600125	Spring (DFWT Special Model)	3
28	0020952	Hinge Beam (DFWT Special Model)	1
29	0502722	Pivot Bracket (DFWT Special Model)	1
30	2100170	Knob, Water Tank	1
31	0021063	Access Cover Assy. (100 & 150 Models)	1
	0503096	Access Cover Assy. (200 & 250 Models)	1
32	7000214	Diode Assy.	1
33	7000134	Silicone Tube Kit (Includes 2 tubes)	1
34	1000976	Label, Front Panel (Manual Models)	1
	1001036	Label, Front Panel (Timer Models)	1
35	4010166	Operate Switch	1
36	4010151	Rocker Switch, Power On/Off, 120 VAC	1
	4010137	Rocker Switch, Power On/Off, 230 VAC	1
37	4070033	Control Board (Manual Models)	1
38	4070037	Control Board (Timer Models)	1
39	4010183	Transformer	1
40	405K125	Relay, Solid State	1
41	7000135	Hi-Limit Thermostat	1
42	7000136	Terminal Block Kit (Incl. No. 43)	1
43	1000967	Marking Label	1
44	7000137	Water Pump Kit, 24 VAC (Incl. No. 33)	1
45	7000142	Outlet Tube Kit (Incl. Nos. 46, 47 & 48)	1
46	2040114	Elbow, Female, 1/4" Tube	1
47	2000188	Outlet Tube	1
48	2040103	Connector, Male, 1/4" Tube	1
49	4040145	Solenoid, 24 VAC	1
50	7000138	Quick Disconnect Body & Plate Kit	1
51	0010159	Filter Assy., Water Tank	1
52	0010584	Inlet Hose Assy.	1
53	040K251	Strain Relief w/Locknut (Incl. #58)	1
54	0011252	Relay & Heat Sink	1
55	0503333	Bracket, Temperature Sensor	1
56	7000156	Audio Alarm Kit	1
57	7000170	Check Valve Kit, Discharge & Intake	1
58	0400138	Locknut, Conduit, 1/2"	1
59	308P104*	Screw, #8-32 x 3/8", SS	1
60	211P127*	Retaining Ring	1
61	325P109*	Screw, Hex	1
62	325P154*	Lockwasher	1
63	325P104*	Washer, Flat	1
64	308P103*	Screw, #8-32 x 1/4", SS	1
65	308P164*	Screw, #8-32 x 1", SS	1
66	308P132*	Screw, #8-32 x 3/4", Flat, SS	1
67	211P103*	Hose Clamp, 1/2" Dia.	1
68	306P123*	Screw, #6-32 x 7/8", SS	1
69	308P124*	Screw, #8-32 x 1/2", 1-Way, SS	1
70	308P143*	Nut, Hex, #8-32 KEPS	1
71	308P108*	Screw, #8-32 x 3/4", SS	1
72	406P107*	Cable Tie	1
73	300P102*	Nut, Tinnerman, U-type	1
74	306P130*	Nut, Hex, #6-32 KEPS	1
75	306P103*	Screw, #6-32 x 3/8", SS	1
76	020P117*	O-Ring	1
77	211P101*	Hose Clamp, 3/8" Dia.	1
78	306P104*	Screw, #6-32 x 1/4", SS	1
79	301P106*	Nut, Spotweld, #6-32	1
80	304P105*	Nut, Hex, #4-40 KEPS	1
81	1000275	Label, Water & Waste Connection	1

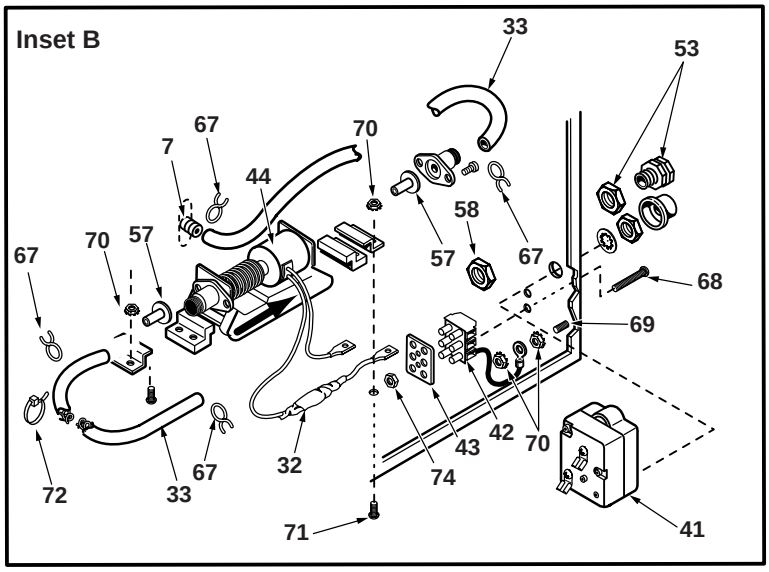
**** Only available in packages of 10.***

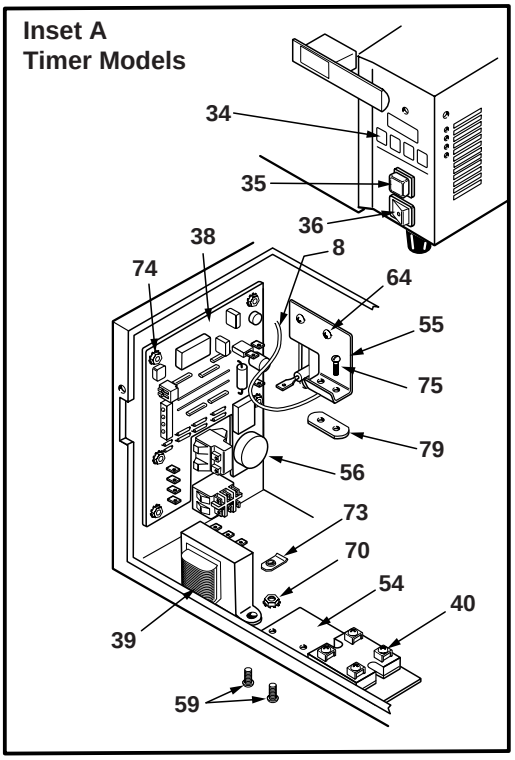
REPLACEMENT PARTS (continued)

DFW/DFWT - 100/150 Series









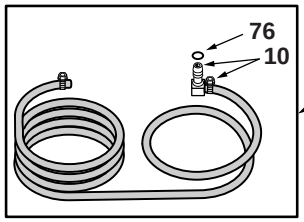
DFW/DFWT - 100/150/200/250 Series

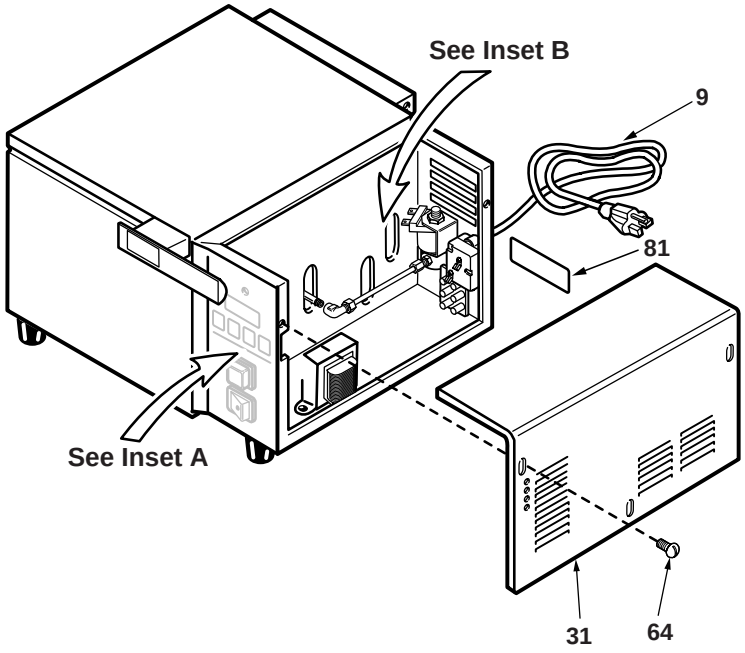
Item	Part No.	Description	Qty.
1	0011115	Top Cover Assy. (DFW Series) (Incl. Nos. 2, 3 & 4)	1
	0011154	Top Cover Assy. (DFWT Series) (Incl. Nos. 2, 3 & 4)	1
	0011162	Top Cover Assy. (DFWT Special Model) (Incl. Nos. 2, 3 & 4)	1
2	0020578	Shelf, Top Cover (DFW Series)	1
	0020577	Shelf, Top Cover (DFWT Series)	1
	0020453	Shelf, Top Cover (DFWT Special Model)	1
3	0021065	Liner, Top Cover (DFW Series)	1
	0021090	Liner, Top Cover (DFWT Series)	1
4	7000122	Gasket, Top Cover (DFW Series)	1
	7000123	Gasket, Top Cover (DFWT Series)	1
5	0010145	Spray Tube Assy. (DFW Series)	1
	0010146	Spray Tube Assy. (DFWT Series)	1
6	7000124	Steam Generator, 120 VAC (DFW Series)	1
	7000147	Steam Generator, 120 VAC, Special 1500W (DFW Series)	1
	7000125	Steam Generator, 230 VAC (DFW Series)	1
	7000126	Steam Generator, 120 VAC (DFWT Series)	1
	7000127	Steam Generator, 230 VAC (DFW Series)	1
7	2190101	Tube, Steam Generator (DFW/DFWT-100 Series)	1
	2190107	Tube, Steam Generator (DFW/DFWT-200 Series)	1
8	4050210	Thermistor (Manual Models)	1
	4050209	Thermocouple (Timer Models)	1
9	0700451	Power Cord, 120 VAC, 14/3 5-20P	1
	0700463	Power Cord, 120 VAC, 14/3 5-15P	1
	0700453	Power Cord, 230 VAC, CEE 7/7	1
	0700437	Power Cord, 230 VAC, IEC-309	1
10	7000139	Male Quick Disconnect Kit	1
11	7000130	Leg Kit (Incl. Nos. 12 & 13)	1
12	2180145	Cover, Leg	4
13	2100230	Leg, 1"	4
14	0503069	Base Plate (DFW Series)	1
	0503178	Base Plate (DFWT Series)	1
15	7000131	Insulation Kit (DFW Series)	1
	7000132	Insulation Kit (DFWT Series)	1
16	0021055	Main Housing (DFW Series)	1
	0021072	Main Housing (DFWT Series)	1
	0021092	Main Housing (DFWT Special Model)	1
17	0503174	Retainer, Generator	2
18	0503177	Diffuser Pan (DFW Series)	1
	0503182	Diffuser Pan (DFWT Series))	1
19	2130102	Perforated Pan (DFW Series)	1
	2130103	Perforated Pan (DFWT Series)	1
20	0800106	Trivet (DFW Series)	1
	0800109	Trivet (DFWT Series)	1
21	7000133	Handle Kit (Incl. Nos. 22 & 66)	1
22	0020964	Cover, Handle Bracket	1
23	0800219	Hinge Pin, Top Cover	1
24	0501569	Hinge Base, Top Cover	1
25	0800280	Hinge Pin (DFWT Special Model)	1
26	0502719	Hinge Base (DFWT Special Model)	1
27	0600125	Spring (DFWT Special Model)	3
28	0020952	Hinge Beam (DFWT Special Model)	1
29	0502722	Pivot Bracket (DFWT Special Model)	1
30	2100170	Knob, Water Tank	1
31	0021063	Access Cover Assy. (100 & 150 Models)	1
	0503096	Access Cover Assy. (200 & 250 Models)	1
32	7000214	Diode Assy.	1
33	7000134	Silicone Tube Kit (Includes 2 tubes)	1
34	1000976	Label, Front Panel (Manual Models)	1
	1001036	Label, Front Panel (Timer Models)	1
35	4010166	Operate Switch	1
36	4010151	Rocker Switch, Power On/Off, 120 VAC	1
	4010137	Rocker Switch, Power On/Off, 230 VAC	1
37	4070033	Control Board (Manual Models)	1
38	4070037	Control Board (Timer Models)	1
39	4010183	Transformer	1
40	405K125	Relay, Solid State	1
41	7000135	Hi-Limit Thermostat	1
42	7000136	Terminal Block Kit (Incl. No. 43)	1
43	1000967	Marking Label	1
44	7000137	Water Pump Kit, 24 VAC (Incl. No. 33)	1
45	7000142	Outlet Tube Kit (Incl. Nos. 46, 47 & 48)	1
46	2040114	Elbow, Female, 1/4" Tube	1
47	2000188	Outlet Tube	1
48	2040103	Connector, Male, 1/4" Tube	1
49	4040145	Solenoid, 24 VAC	1
50	7000138	Quick Disconnect Body & Plate Kit	1
51	0010159	Filter Assy., Water Tank	1
52	0010584	Inlet Hose Assy.	1
53	040K251	Strain Relief w/Locknut (Incl. #58)	1
54	0011252	Relay & Heat Sink	1
55	0503333	Bracket, Temperature Sensor	1
56	7000156	Audio Alarm Kit	1
57	7000170	Check Valve Kit, Discharge & Intake	1
58	0400138	Locknut, Conduit, 1/2"	1
59	308P104*	Screw, #8-32 x 3/8", SS	1
60	211P127*	Retaining Ring	1
61	325P109*	Screw, Hex	1
62	325P154*	Lockwasher	1
63	325P104*	Washer, Flat	1
64	308P103*	Screw, #8-32 x 1/4", SS	1
65	308P164*	Screw, #8-32 x 1", SS	1
66	308P132*	Screw, #8-32 x 3/4", Flat, SS	1
67	211P103*	Hose Clamp, 1/2" Dia.	1
68	306P123*	Screw, #6-32 x 7/8", SS	1
69	308P124*	Screw, #8-32 x 1/2", 1-Way, SS	1
70	308P143*	Nut, Hex, #8-32 KEPS	1
71	308P108*	Screw, #8-32 x 3/4", SS	1
72	406P107*	Cable Tie	1
73	300P102*	Nut, Tinnerman, U-type	1
74	306P130*	Nut, Hex, #6-32 KEPS	1
75	306P103*	Screw, #6-32 x 3/8", SS	1
76	020P117*	O-Ring	1
77	211P101*	Hose Clamp, 3/8" Dia.	1
78	306P104*	Screw, #6-32 x 1/4", SS	1
79	301P106*	Nut, Spotweld, #6-32	1
80	304P105*	Nut, Hex, #4-40 KEPS	1
81	1000275	Label, Water & Waste Connection	1

**** Only available in packages of 10.***

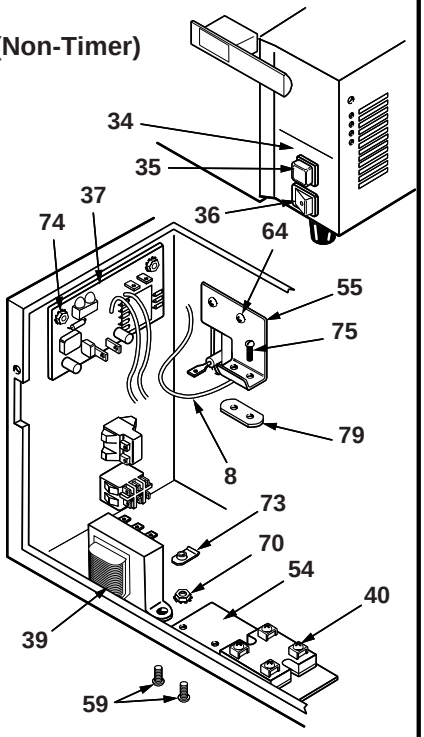
REPLACEMENT PARTS (continued)

DFW/DFWT - 200/250 Series

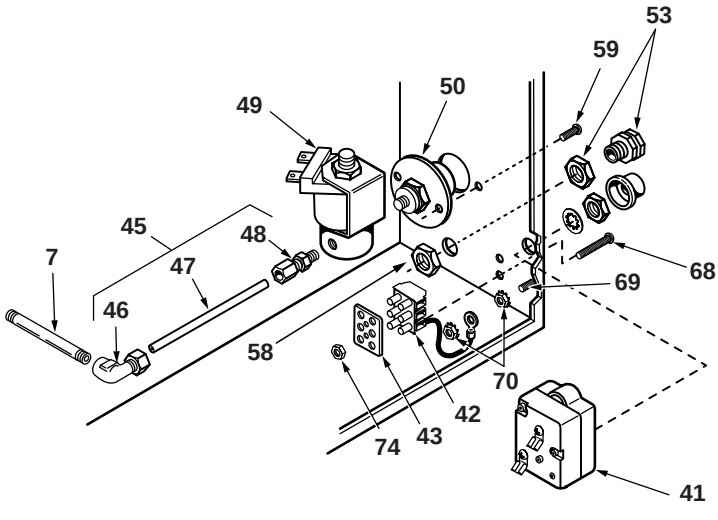




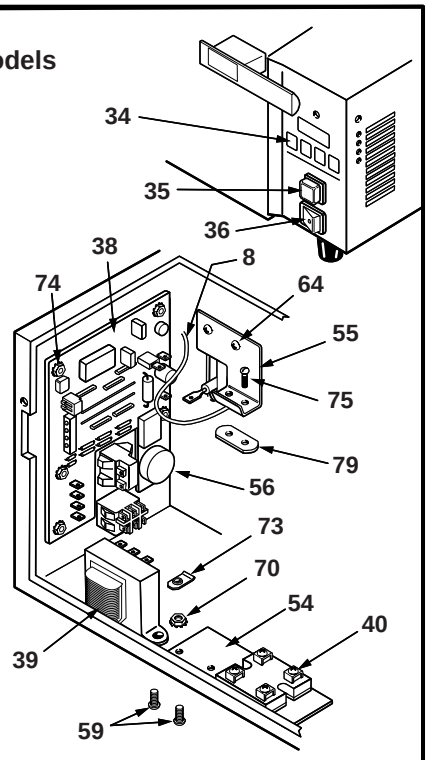
Inset A
Manual (Non-Timer) Models



Inset B



Inset A
Timer Models



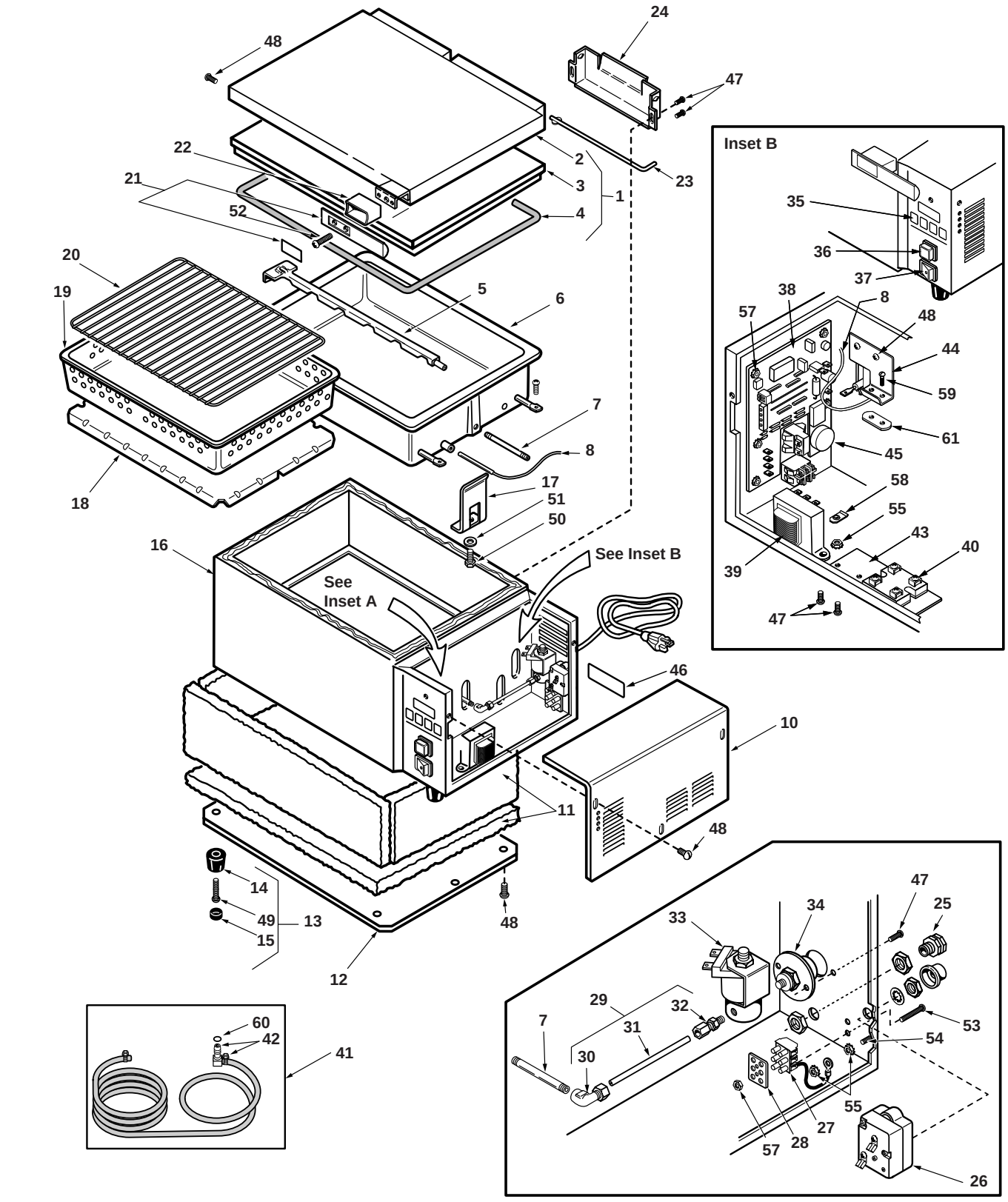
DFW/DFWT - 100/150/200/250 Series

Item	Part No.	Description	Qty.
1	0011115	Top Cover Assy. (DFW Series) (Incl. Nos. 2, 3 & 4)	1
	0011154	Top Cover Assy. (DFWT Series) (Incl. Nos. 2, 3 & 4)	1
	0011162	Top Cover Assy. (DFWT Special Model) (Incl. Nos. 2, 3 & 4)	1
2	0020578	Shelf, Top Cover (DFW Series)	1
	0020577	Shelf, Top Cover (DFWT Series)	1
	0020453	Shelf, Top Cover (DFWT Special Model)	1
3	0021065	Liner, Top Cover (DFW Series)	1
	0021090	Liner, Top Cover (DFWT Series)	1
4	7000122	Gasket, Top Cover (DFW Series)	1
	7000123	Gasket, Top Cover (DFWT Series)	1
5	0010145	Spray Tube Assy. (DFW Series)	1
	0010146	Spray Tube Assy. (DFWT Series)	1
6	7000124	Steam Generator, 120 VAC (DFW Series)	1
	7000147	Steam Generator, 120 VAC, Special 1500W (DFW Series)	1
	7000125	Steam Generator, 230 VAC (DFW Series)	1
	7000126	Steam Generator, 120 VAC (DFWT Series)	1
	7000127	Steam Generator, 230 VAC (DFW Series)	1
7	2190101	Tube, Steam Generator (DFW/DFWT-100 Series)	1
	2190107	Tube, Steam Generator (DFW/DFWT-200 Series)	1
8	4050210	Thermistor (Manual Models)	1
	4050209	Thermocouple (Timer Models)	1
9	0700451	Power Cord, 120 VAC, 14/3 5-20P	1
	0700463	Power Cord, 120 VAC, 14/3 5-15P	1
	0700453	Power Cord, 230 VAC, CEE 7/7	1
	0700437	Power Cord, 230 VAC, IEC-309	1
10	7000139	Male Quick Disconnect Kit	1
11	7000130	Leg Kit (Incl. Nos. 12 & 13)	1
12	2180145	Cover, Leg	4
13	2100230	Leg, 1"	4
14	0503069	Base Plate (DFW Series)	1
	0503178	Base Plate (DFWT Series)	1
15	7000131	Insulation Kit (DFW Series)	1
	7000132	Insulation Kit (DFWT Series)	1
16	0021055	Main Housing (DFW Series)	1
	0021072	Main Housing (DFWT Series)	1
	0021092	Main Housing (DFWT Special Model)	1
17	0503174	Retainer, Generator	2
18	0503177	Diffuser Pan (DFW Series)	1
	0503182	Diffuser Pan (DFWT Series))	1
19	2130102	Perforated Pan (DFW Series)	1
	2130103	Perforated Pan (DFWT Series)	1
20	0800106	Trivet (DFW Series)	1
	0800109	Trivet (DFWT Series)	1
21	7000133	Handle Kit (Incl. Nos. 22 & 66)	1
22	0020964	Cover, Handle Bracket	1
23	0800219	Hinge Pin, Top Cover	1
24	0501569	Hinge Base, Top Cover	1
25	0800280	Hinge Pin (DFWT Special Model)	1
26	0502719	Hinge Base (DFWT Special Model)	1
27	0600125	Spring (DFWT Special Model)	3
28	0020952	Hinge Beam (DFWT Special Model)	1
29	0502722	Pivot Bracket (DFWT Special Model)	1
30	2100170	Knob, Water Tank	1
31	0021063	Access Cover Assy. (100 & 150 Models)	1
	0503096	Access Cover Assy. (200 & 250 Models)	1
32	7000214	Diode Assy.	1
33	7000134	Silicone Tube Kit (Includes 2 tubes)	1
34	1000976	Label, Front Panel (Manual Models)	1
	1001036	Label, Front Panel (Timer Models)	1
35	4010166	Operate Switch	1
36	4010151	Rocker Switch, Power On/Off, 120 VAC	1
	4010137	Rocker Switch, Power On/Off, 230 VAC	1
37	4070033	Control Board (Manual Models)	1
38	4070037	Control Board (Timer Models)	1
39	4010183	Transformer	1
40	405K125	Relay, Solid State	1
41	7000135	Hi-Limit Thermostat	1
42	7000136	Terminal Block Kit (Incl. No. 43)	1
43	1000967	Marking Label	1
44	7000137	Water Pump Kit, 24 VAC (Incl. No. 33)	1
45	7000142	Outlet Tube Kit (Incl. Nos. 46, 47 & 48)	1
46	2040114	Elbow, Female, 1/4" Tube	1
47	2000188	Outlet Tube	1
48	2040103	Connector, Male, 1/4" Tube	1
49	4040145	Solenoid, 24 VAC	1
50	7000138	Quick Disconnect Body & Plate Kit	1
51	0010159	Filter Assy., Water Tank	1
52	0010584	Inlet Hose Assy.	1
53	040K251	Strain Relief w/Locknut (Incl. #58)	1
54	0011252	Relay & Heat Sink	1
55	0503333	Bracket, Temperature Sensor	1
56	7000156	Audio Alarm Kit	1
57	7000170	Check Valve Kit, Discharge & Intake	1
58	0400138	Locknut, Conduit, 1/2"	1
59	308P104*	Screw, #8-32 x 3/8", SS	1
60	211P127*	Retaining Ring	1
61	325P109*	Screw, Hex	1
62	325P154*	Lockwasher	1
63	325P104*	Washer, Flat	1
64	308P103*	Screw, #8-32 x 1/4", SS	1
65	308P164*	Screw, #8-32 x 1", SS	1
66	308P132*	Screw, #8-32 x 3/4", Flat, SS	1
67	211P103*	Hose Clamp, 1/2" Dia.	1
68	306P123*	Screw, #6-32 x 7/8", SS	1
69	308P124*	Screw, #8-32 x 1/2", 1-Way, SS	1
70	308P143*	Nut, Hex, #8-32 KEPS	1
71	308P108*	Screw, #8-32 x 3/4", SS	1
72	406P107*	Cable Tie	1
73	300P102*	Nut, Tinnerman, U-type	1
74	306P130*	Nut, Hex, #6-32 KEPS	1
75	306P103*	Screw, #6-32 x 3/8", SS	1
76	020P117*	O-Ring	1
77	211P101*	Hose Clamp, 3/8" Dia.	1
78	306P104*	Screw, #6-32 x 1/4", SS	1
79	301P106*	Nut, Spotweld, #6-32	1
80	304P105*	Nut, Hex, #4-40 KEPS	1
81	1000275	Label, Water & Waste Connection	1

**** Only available in packages of 10.***

REPLACEMENT PARTS (continued)

DFWF - 250



DFWF - 250

Item	Part No.	Description	Qty.
1	0011165	Top Cover Assy. (Incl. Nos. 2, 3 & 4)	1
2	0020769	Shelf, Top Cover	1
3	0021094	Liner, Top Cover	1
4	7000140	Gasket, Top Cover	1
5	0010147	Spray Tube Assy.	1
6	7000220	Steam Generator, 3300 Watt, 230 VAC	1
	7000221	Steam Generator, 3300 Watt, 208 VAC	1
7	2190107	Tube, Steam Generator	1
8	4050209	Thermocouple,	1
9	0700451	Power Cord, 250 VAC, NEMA 6-20P	1
	0700453	Power Cord, 250 VAC, CEE 7/7	1
10	0021063	Access Cover Assy.	1
11	7000141	Insulation Kit	1
12	0503103	Base Plate	1
13	7000130	Leg Kit (Incl. Nos. 14 & 15)	1
14	2180145	Cover, Leg	4
15	2100230	Leg, 1"	4
16	0021095	Main Housing	1
17	0503186	Retainer, Generator	2
18	0503187	Diffuser Pan	1
19	2130104	Perforated Pan, Full Size	1
20	0800113	Trivet	1
21	7000133	Handle Kit (Incl. Nos. 22 & 52)	1
22	0020964	Cover, Handle Bracket	1
23	0800219	Hinge Pin, Top Cover	1
24	0501569	Hinge Base, Top Cover	1
25	040K251	Strain Relief w/Locknut	1
26	7000135	Hi-Limit Thermostat	1
27	7000136	Terminal Block Kit (Incl. No. 28)	1
28	1000967	Marking Label	1
29	7000142	Outlet Tube Kit (Incl. Nos. 30, 31 & 32)	1
30	2040114	Elbow, Female, 1/4" Tube	1
31	2000188	Outlet Tube	1
32	2040103	Connector, Male, 1/4" Tube	1
33	4040145	Solenoid, 24 VAC	1
34	7000138	Quick Disconnect Body & Plate Kit	1
35	1000977	Label, Front Panel	1
36	4010166	Operate Switch	1
37	4010137	Rocker Switch, Power On/Off,	
38	4070021	Control Board	1
39	4010183	Transformer	1
40	405K125	Relay, Solid State	1
41	0010584	Inlet Hose Assy.	1
42	7000139	Male Quick Disconnect Kit	1
43	0011252	Relay & Heat Sink	1
44	0503333	Bracket, Temperature Sensor	1
45	7000156	Audio Alarm Kit	1
46	1000275	Label, Water & Waste Connection	1
47	308P104*	Screw, #8-32 x 3/8", SS	1
48	308P103*	Screw, #8-32 x 1/4", SS	1
49	308P164*	Screw, #8-32 x 1", SS	1
50	325P109*	Screw, Hex, 1/4-20 x 1/2", SS	1
51	325P104*	Washer, Flat	1
52	308P132*	Screw, #8-32 x 3/4", Flat, SS	1
53	306P123*	Screw, #6-32 x 7/8", SS	1
54	308P124*	Screw, #8-32 x 1/2", 1-Way, SS	1
55	308P143*	Nut, Hex, #8-32 KEPS	1
56	308P101*	Nut, Hex, #6-32, SS	1
57	306P130*	Nut, Hex, #6-32 KEPS	1
58	300P102*	Nut, Tinnerman, U-type	1
59	306P103*	Screw, #6-32 x 3/8", SS	1
60	020P117*	O-Ring	1
61	301P106*	Nut, Spotweld, #6-32	1
62	304P105*	Nut, Hex, #4-40 KEPS	1

**** Only available in packages of 10.***

NOTES

LIMITED WARRANTY

Equipment manufactured by Roundup Food Equipment Division of A.J. Antunes & Co. has been constructed of the finest materials available and manufactured to high quality standards. These units are warranted to be free from mechanical and electrical defects for a period of one year from date of purchase or 18 months from shipment from factory, whichever occurs first, under normal use and service, and when installed in accordance with manufacturer's recommendations. To insure continued proper operation of the units, follow the maintenance procedure outlined in the Owner's Manual.

1. This warranty does not cover cost of installation, defects caused by improper storage or handling prior to placing of the Equipment. This warranty does not include overtime charges or work done by unauthorized service agencies or personnel. This warranty does not cover normal maintenance, calibration, or regular adjustments as specified in operating and maintenance instructions of this manual, and/or labor involved in moving adjacent objects to gain access to the Equipment. This warranty does not cover consumable items such as platen release sheet and conveyor belt wraps. **This warranty does not pay travel, mileage, or any other charges for an authorized service agency to reach the equipment location.**

2. Roundup reserves the right to make changes in design or add any improvements on any product. The right is always reserved to modify equipment because of factors beyond our control and government regulations. Changes to update equipment do not constitute a warranty charge.

3. **If shipment is damaged in transit, the purchaser should make a claim directly upon the carrier. Careful inspection should be made of the shipment as soon as it arrives and visible damage should be noted upon the carrier's receipt. Damage should be reported to the carrier. This damage is not covered under this warranty.**

4. Warranty charges do not include freight or foreign, excise, municipal or other sales or use taxes. All such freight and taxes are the responsibility of the purchaser.

5. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EACH OF WHICH IS HEREBY EXPRESSLY DISCLAIMED. THE REMEDIES DESCRIBED ABOVE ARE EXCLUSIVE AND IN NO EVENT SHALL ROUNDUP BE LIABLE FOR SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR THE BREACH OR DELAY IN PERFORMANCE OF THIS WARRANTY.

A.J. ANTUNES & CO.

180 Kehoe Blvd. • Carol Stream, Illinois 60188
Telephone (630) 784-1000 • FAX (630) 784-1650 • 1-877-392-7854
www.ajantunes.com